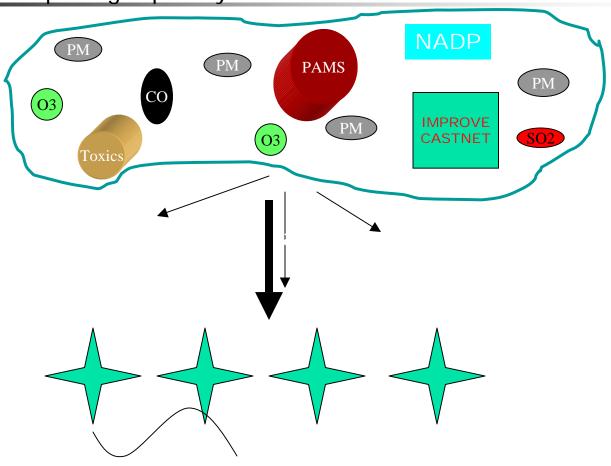# National Core Network: NCORE

- Goal: Move from loosely tied single-pollutant networks to coordinated, highly leveraged multi-pollutant networks with real time reporting capability

Principal Data Objectives of NCore

- **Public Information**

  - Real-time Input of Data From Across the Country Using Continuous Technologies

  - Spatial Mapping (E.G., AIRNOW), Health Advisories

- **Health/Exposure Assessment Support**

  - Input for Periodic NAAQS Reviews

- **Emissions Strategy Planning   (Emphasis on Initial Timeframe)**

  - What are the best emission reduction approaches?

  - Provide DATA for Routine Model Evaluation and Source Attribution

- **Air Quality Trends and Program Accountability**
  - Do measured data confirm strategies are working?
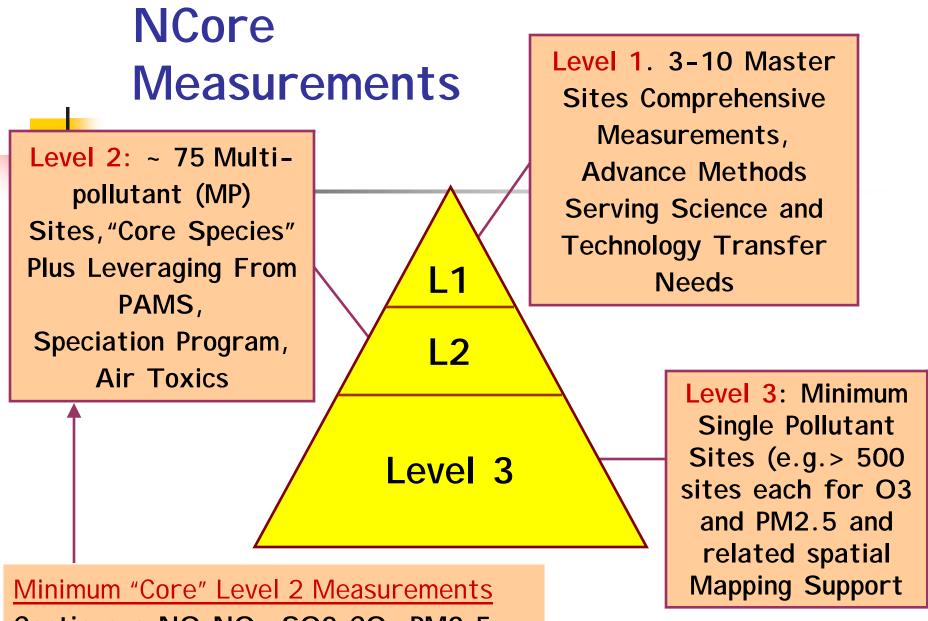 - Major National Initiatives (Acid Rain, Clear Skies, NOx SIPS, FMVCP)
  - Including HAPS (National) and Visibility Assessments
- **Science Support**
  - Backbone for More Diagnostic Level Work (Same for Local Sips), Health Studies
- **NAAQS Determinations and Related Regulatory Rqmts**.
  - Emphasis on More Pervasive Ozone and PM2.5

NCore Measurements

Level 2: ~ 75 Multi-pollutant (MP) Sites, "Core Species" Plus Leveraging From PAMS, Speciation Program, Air Toxics

Level 1. 3-10 Master Sites Comprehensive Measurements, Advance Methods Serving Science and Technology Transfer Needs

L1

L2

Level 3

Level 3: Minimum Single Pollutant Sites (e.g.> 500 sites each for O3 and PM2.5 and related spatial Mapping Support

Minimum "Core" Level 2 Measurements
Continuous NO, NOy, SO2, CO, PM2.5, PM10/PMc, O_3, Meteorology **(T,RH,WS,WD)**; Integrated PM2.5 FRM, HNO3, NH3,

Today

Air Toxic
Monitoring

Visibility –
IMPROVE &
Regional Haze

Ozone –
PAMS

Fine Particles –
PM2.5
Chemical Speciation

Inhalable Particles –
PM10

Acid Deposition –
CASTNet
NADP

Future Directions

Core

Core +
PM spec

Core
Spec
Toxics

Core
PM
Spec
PAMS

Core
Spec
PAMS
Toxics